

Section 1 – Product & Company Identification

Product Name: **LucasCide**
 Product ID Number: 831
 Product Use: **Disinfectant/Sanitizer/Cleaner**
 Product Class: Quaternary Ammonium Compound
 EPA Reg. Number: 10324-141-3974
 Supplier Information: Lucas Products Corporation
 5655 Opportunity Drive
 Toledo, OH 43612
 Telephone Numbers: 419-476-5992
 24 hr. Emergency Assistance: Infotrac 1-800-535-5053

Section 2 – Composition/Information on Ingredients

<u>INGREDIENT</u>	<u>CAS#</u>	<u>% by Weight</u>	<u>Exposure Limits</u>	<u>LC₅₀/LD₅₀</u>
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	5% - 10%	Not established	Not established
Didecyl dimethyl ammonium chloride	7173-51-5	7% - 15%	Not established	Not established
Ethanol	64-17-5	0% - 5%	ACGIH TLV, OSHA PEL 1000 ppm (TWA) US, CANADA, MEXICO	Acute Oral LD50: >1000 mg/kg (Rats) Acute Dermal: >2000 mg/kg (Rats)

Section 3 – Hazards Identification

Emergency Overview: Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.
 Potential Health Effects:
 Skin: Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through skin.
 Eyes: Causes burns and may result in permanent injury to the eyes including blindness.
 Inhalation: Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Harmful if inhaled.
 Ingestion: Can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death.
 Chronic: Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

Section 4 – First Aid Measures

Eyes: Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.
 Skin/Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
 Inhalation: If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
 Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
 Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5 – Fire Fighting Measures

Flash Point: None when heated to 105°C – Tag Closed Cup Upper - Lower: Not determined
 Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog or any other agent suitable for surrounding fire.
 Fire Fighting Equipment & Instructions: Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.
 Hazardous Combustion Products: Irritating and toxic gases or fumes may be released during a fire.

Section 6 – Accidental Release Measures

Spill and Leak Procedures
 Emergency Action: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
 Spill Cleanup: Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Section 7 – Handling & Storage

Handling Procedures: Avoid contact with skin and eyes. Use good personal hygiene practices. Wash thoroughly after using with soap and water.
 Storage Procedures: Keep container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near open flame, heat or other sources of ignition.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
 Personal Protective Equipment:
 Eyes/Face: Wear chemical goggles. Use a face shield if splashing is possible.
 Skin: Use rubber or neoprene gloves. Wear suitable protective clothing.
 Respiratory: Not necessary unless exposure limits are exceeded, then use a NIOSH/MSNA approved respirator.
 General: Eye wash fountain and emergency showers are recommended.

The following ingredients have established exposure guidelines:

<u>INGREDIENT</u>	<u>EXPOSURE GUIDELINE</u>	<u>GUIDELINE VALUE</u>
Ethanol (CAS# 64-17-5)	ACGIH TLV, OSHA PEL & NIOSH REL	1000 PPM (TWA)

All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

Section 9 – Physical & Chemical Properties

Flash Point: None when heated to 105°C – Tag Closed Cup
 Specific Gravity: 1.006
 Percent Volatiles: Not determined.
 VOC Content: < 1
 Evaporation Rate: Not determined.

pH: 7 - 8
Appearance and Odor: pink colored liquid, mild

Section 10: Stability & Reactivity

Chemical Stability: Stable Conditions to Avoid: Keep away from heat and oxidizing agents.
Incompatibilities: Strong oxidizing agents.
Hazardous Decomposition: Carbon monoxide, carbon dioxide and hydrogen chloride vapors.
Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Carcinogenicity: No Carcinogenicity data available for this product.
Acute Oral LD50: >1,000 mg/kg in male and female rats.
Acute Dermal LD50: > 2,000 mg/m3 in male and female rabbits.
Primary Skin: Corrosive.
Primary Eye: Corrosive.

CHEMICAL INGREDIENTS LISTED AS POTENTIAL OR KNOWN CARCINOGENS

INGREDIENT	OSHA	NTP	IARC
No ingredients listed in this section.			

Section 12 – Ecological Information

Ecotoxicity: No data available for this product but considered toxic to fish.
Environmental Fate: This product is biodegradable.

Section 13 – Disposal Considerations

Disposal Instructions: This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.
The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

Section 14 – Transportation Information – 49 CFR §173.154 (Exemption)

US Ground Transportation: This product as its packaged is considered non-hazardous and ships as a “Consumer Commodity” for US Ground transportation
DOT Hazard Class: ORM-D
DOT Proper Shipping Name: Consumer Commodity, Liquid Cleaning Compound, LTD. QTY.
IATA: ORM-D-AIR: >1.3 Gallons net capacity
Packages over 66 lbs.: UN1903, Disinfectant Liquid Corrosive, NOS (Quaternary Ammonium Compound), 8, PGIII

Section 15 – Regulatory Information

TSCA Status
While all ingredients are listed on the TSCA Chemical Inventory, this product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.

Other Chemical Inventories

All components of this product are listed on the following inventories: Canada (DSL), China, and Philippines. One or more ingredients are not listed on the following inventories: Australia, Japan, European Union, Korea.

CERCLA/SARA

SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: Immediate, Fire

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

CHEMICAL NAME	CAS NO.	MAXIMUM CONCENTRATION	COMMENT
No ingredients listed in this section.			

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

CHEMICAL NAME	REPORTABLE QUANTITY (RQ)	THRESHOLD PLANNING QUANTITY (TPQ)
No ingredients listed in this section.		

State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California’s Proposition 65 List

CHEMICAL NAME	STATE LIST
Benzyl Chloride (trace < 100 ppm)	AZ, CA, CAP65C, CT, IL, MA, MN, NJ, PA, RI
Ethanol	AZ, CA, CT, ID, MA, MN, NJ, PA, RI
AZ – Arizona Ambient Air Quality Guidelines	IL – Illinois Toxic Air Contaminant – Carcinogenic
CT – Connecticut Hazardous Air Pollutants	MA – Massachusetts Right to Know List
CA – California Director’s List of Hazardous Substances	MN – Minnesota Hazardous Substance List
CA65C – California Prop 65 Carcinogen	NJ – New Jersey Right to Know List
CA65R – California Prop 65 Reproductive Toxin	PA – Pennsylvania Right to Know List
FL – Florida Substances List	RI – Rhode Island Hazardous Substance List
ID – Idaho Non-carcinogen Toxic Air Pollutants	

WHMIS Classification: E, D2B. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16 – Other Information

Hazard Ratings

Hazard Ratings

Hazard Rating Scale:
4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

The seller makes no warranty expressed or implied concerning the accuracy of any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.